William J. Cahill, Jr.
Vice President

Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003
Telephone (212) 460-3819

November 2, 1979

Re: Indian Point Unit No. 2
Docket No. 50-247

Director of Nuclear Reactor Regulation
ATTN: Mr. A. Schwencer, Chief
Operating Reactors Branch No. 1
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Schwencer:

In accordance with the requirements of the Commission's Indian Point Unit No. 2 Fire Protection Safety Evaluation Report (SER), dated January 31, 1979, Attachment A to this letter provides design details on the following items:

(a) Diesel driven fire pump and water supply (SER item 3.1.4).

(b) Fire detector locations inside containment (SER item 3.1.15).

(c) Diesel generator splash shields (SER item 3.1.16).

The design details on the two remaining items (SER items 3.1.13 and 3.1.25.7) will be provided as soon as they are available.

In addition, the fireproofing of the diesel generator building structure (SER item 3.1.16), which was scheduled for the end of 1980, was accomplished during the unit's recently completed third refueling/maintenance outage.

Should you or your staff have any questions, please contact us.

Very truly yours,

William J. Cahill, Jr.
Vice President

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ATTACHMENT A

Fire Protection Modification Design Details

Consolidated Edison Company of New York, Inc.
Indian Point Unit No. 2
Docket No. 50-247
November, 1979

ATTACHMENT A

I. Diesel Driven Fire Pump and Water Supply (SER Item 3.1.4):

1. Pump Location:

The pump will be in a separate enclosure located in the northeast corner of the protected area (see enclosed Figure 1).

2. Protection:

The enclosure will be provided with a wet pipe sprinkler system connected directly to the existing high pressure yard main (see enclosed Con Edison Drawing No. 22230). A water flow alarm will annunciate in the Central Control Room.

3. Capacity:

The pump is being sized with a nominal capacity of 2500 gpm at 115 psig. At the 150% capacity point, the delivery pressure will be 82 psig.

4. Connection to the Yard Loop:

The pump supply and discharge connections are shown on Con Edison Drawing No. 22230.

The discharge piping from the pump is 8-inch IPS which is a deviation from the 10-inch IPS required by NFPA 20. Since the existing yard main is 8 inches, the differential in pressure drop between an 8-inch and 10-inch discharge pipe would add an insignificant amount to the overall pressure drop within the systems.

To accomodate the extra pressure drop encountered in an 8-inch distribution system, the pump has been oversized. As a point of reference, the pump will deliver 2250 gpm at 117 psig, whereas the existing electric pumps are rated to deliver the same gallonage at 65 psig.

All valves within the system will be of the butterfly or OS&Y type.

II. Fire Detector Locations Inside Containment (SER Item 3.1.15):

1. Location:

Ionization type smoke detectors have been located inside containment in Zone 75A which is the electrical penetration area (see enclosed UE&C Drawing No. 9321-F-3063). The detectors have been located within the area in positions which afford the best surveillance of all the cable trays.

The information on the location of the smoke detectors at the Reactor Coolant Pumps will be provided as soon as formal design drawings have been completed.

III. Diesel Generator Splash Shields (SER Item 3.1.16):

1. Design:

The design of the splash shields is shown on the enclosed Con Edison Drawing No. B207634. There will be 8 shields to a row making an effective wall length of 31 feet. Each shield will overlap the adjacent one so that there will not be any gaps between them. Each shield will be made of 1/8 inch thick aluminum sheet and be 84 inches high by 48 inches wide, which includes a 1-1/2 inch overlap.

2. Location:

As shown on Drawing B207634, the shields will be aligned in rows between each of the diesel generators.